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TM-(L)-734/029/00

# TECHNICAL MEMORANDUM

(TM Series)

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Systems Division Program, for Space Systems Division, AFSC.

1604 Simulation Program Descriptions  
Milestone 11

Simulation Reset Routine  
(SIMRESET)

by  
P. T. Kastama  
22 March 1963

Approved

J. B. Munson

SYSTEM

DEVELOPMENT

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## 1.0 IDENTIFICATION

### 1.1 Title

Simulation Reset Routine (SIMRESET)

Ident: K10, Mod. 04

### 1.2 Programmed

W. Collins, B. Ciaccia, Lockheed Missiles and Space Division

### 1.3 Modified

December 1962, H. W. Houghton, System Development Corporation\*

January 1963, G. A. Madrid, System Development Corporation

### 1.4 Documented

March 1963, P. T. Kastama, System Development Corporation

## 2.0 PURPOSE

SIMRESET will read a Reset Tape on one tape unit, only. Also, SIMRESET will not check for record length errors.

## 3.0 USAGE

### 3.1 Calling Sequence

L	SLJ	4	RESET
L+1	ZRØ		A
	ZRØ		V
L+2	ZRØ		F <sub>1</sub>
	ZRØ		L <sub>1</sub>
⋮			
L+1+N	ZRØ		F <sub>n</sub>
	ZRØ		L <sub>n</sub>
L+2+N	NORMAL RETURN		

\*RESET was modified and documented by H. W. Houghton. SIMRESET is a special purpose modification utilized by the simulation programs.



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5.2 Since SIMRESET reads one tape three times instead of three tapes one time, there is excessive wear on the Reset Tape and use of SIMRESET should be restricted.

5.3 See TM-714/030/00 for further restrictions on RESET.

#### 6.0 TIMING

SIMRESET does not significantly differ in timing from RESET. See TM-714/030/00 for a discussion of timing.

#### 7.0 STORAGE REQUIREMENTS

	<u>Decimal</u>	<u>Octal</u>
Program	273	421
Constants	98	142
Printouts	16	20
Temporary Storage	<u>2782</u>	<u>5336</u>
Total	3169	6141

#### 8.0 VALIDATION TESTS

SIMRESET was used to read several Reset Tapes for Files 1 and 2, using the following calling sequence:

	LDA	RT	RT=Reset Tape Unit Number
-	RTJ	SIMRESET	
+	ZRO	0	
	ZRO	0	
+	ZRO	2	
	ZRO	RESETBL	

In each case, a dump taken of the RESETBL area in core agreed with a dump taken of the first two files of the respective Reset Tape. Subsequently, tracking data was generated correctly by the SIPSA tracking modules, SRGR and SRADTAPE, from the data on the various Reset Tapes.

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## 9.0 REFERENCES

9.1 TM-714/030/00, General Purpose Satellite Computer Program Descriptions, Milestone 11, Generate, Update and Read the Reset Tape (RESET), H. W. Houghton, System Development Corporation, 4 December 1962.

9.2 TM-(L)-734/022/00, Computer Operating Instructions for the Simulated Input Preparation System for the Augmented SCF Environment at the STA and CPDC (SIPSA), Milestone 7, the Simulation Section, System Development Corporation, 1 February 1963.



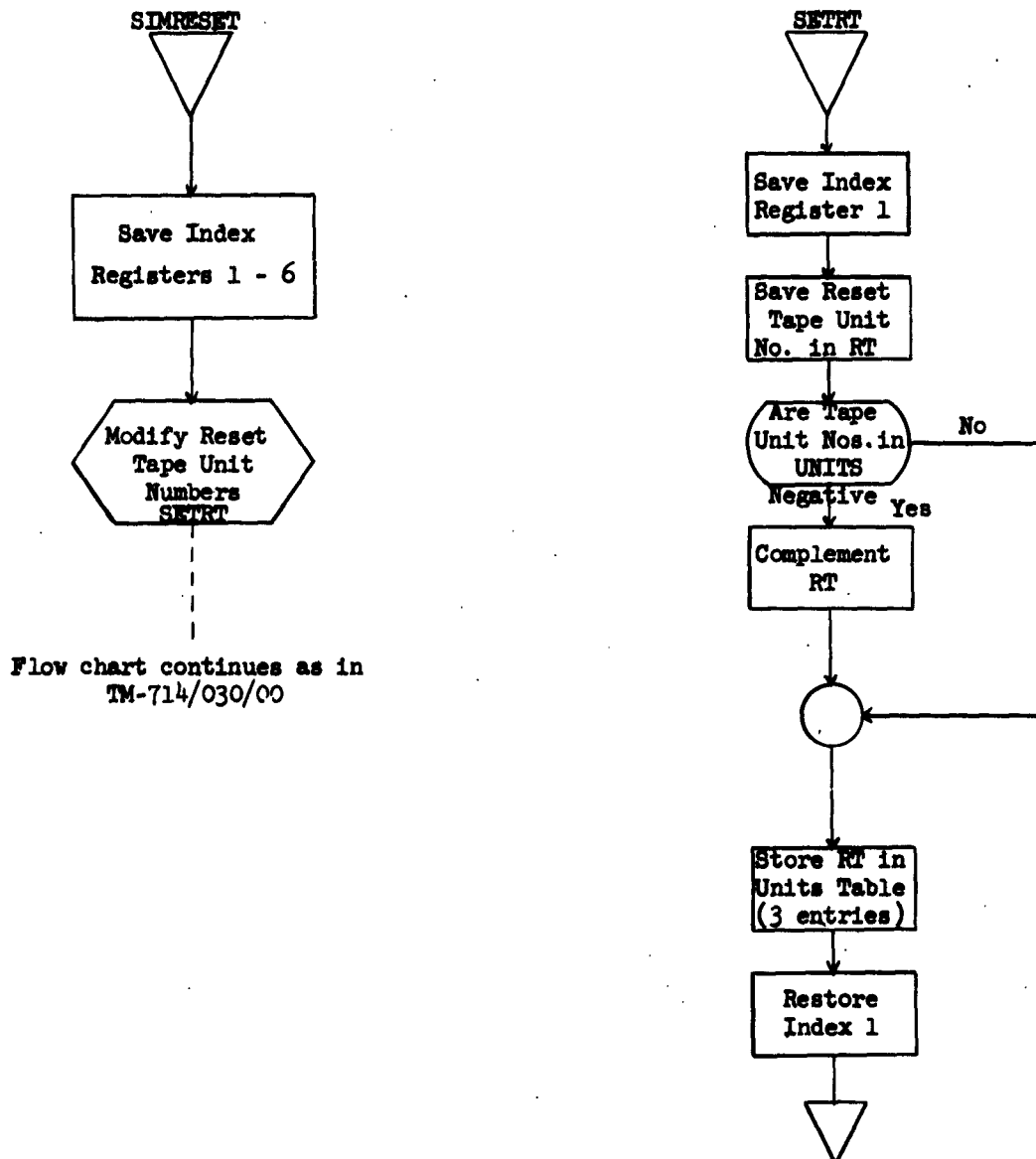
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APPENDIX A

Flow Diagram of Modifications to RESET



Also, the record length error check was removed from the I/O routine in Reset.

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System Development Corporation,  
Santa Monica, California  
1604 SIMULATION PROGRAM DESCRIPTIONS  
MILESTONE 11 SIMULATION RESET ROUTINE  
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Scientific rept., TM(L)-734/029/00,  
by P. T. Kastana. 22 March 1963, 7p.,  
2 refs.  
(Contract AF 19(628)-1648, Space Systems  
Division Program, for Space Systems  
Division, AFSC)

DESCRIPTORS: Programming (Computers).  
Satellite Networks.

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Reports that SIMRESET (Simulation Reset  
Routine) will read a Reset Tape on  
one tape unit. Also reports that  
SIMRESET will not check for record  
length errors. States that SIMRESET  
is a special purpose modification  
utilized by the simulation programs.

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